

- NO. 7639 r. 2/20 - #16/I.D.S.

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VS_	AA1	4,713,339	12/15/1987	Levinson et al.	435		240.2	01/19/1983			
1/	AB1	4,897,355	01/30/1990	Eppstein et al.	435		240.2	01/07/1985			
	AC1	4,965,196	10/23/1990	Levinson et al.	435		691	01/19/1983			
	AD1	5,264,618	11/23/1993	Felgner et al.	560		224	04/19/1990			
	AE1	5,334,761	08/02/1994	Gebeyehu et al.	564		197	08/28/1992			
	AF1	5,459,127	10/17/1995	Felgner et al.	514		7	09/16/1993			
	AG1	5,580,859	12/03/1996	Felgner et al.	514		44	03/18/1994			
	AH1	5,589,466	12/31/1996	Felgner et al.	514		44	01/06/1995			
	AI1	5,676,954	10/14/1997	9righam	424		450	05/08/1995			
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PS	AS	Agadjanyan, Leukemia Vi	Agadjanyan, M.G., et al., "DNA Plasmid Based Vaccination Against the Oncogenic Human T Cell Leukemia Virus Type 1," Curr. Top. Microbiol. Immunol. 226:175-192 (1998).								
75	ΑT	novel nonre	Altman-Hamamdzic, S., et al., "Expression of β-galactosidase in mouse brain: utilization of a novel nonreplicative Sindbis virus vector as a neuronal gene delivery system," <i>Gene Ther</i> . 4(8):815-822 (August 1997).								
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.725	AS	Behr, J.P.,	ehr, J.P., et al., "Efficient gene transfer into mammalian primary endocrine cells with ipopolyamine-coated DNA," Proc. Natl. Acad. Sci. U S A. 86(18):6982-6986 (September 1989).							
25	AT	Boyer, J.D., DNA immuniza	Boyer, J.D., et al., "In vivo protective enti-HIV immune responses in non-human primates through DNA immunization," <i>J. Med. Primatol. 25</i> (3):242-250 (June 1996).							
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; 725	AS	AS  Boyer, J.D., et al., "Protection of chimpanzees from high-dose heterologous HIV-1 challenge by DNA vaccination," Nature Med. 3(5):526-532 (May 1997).								
75	AT	Davis, H	Davis, H.L., "Plasmid DNA expression systems for the purpose of immunization," Curr. Opin. Biotechnol. 8(5):635-646 (October 1997).							
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725	AS	4 Davis, H.L. against the	Davis, H.L., <i>et al.</i> , "Direct gene transfer in skeletal muscle: plasmid DNA-based immunization against the hepatitis B virus surface antigen," <i>Vaccine 12</i> (16):1503-1509 (December 1994).							
25	AT	Davis, H.L.	Davis, H.L., et al., "Immune-mediated destruction of transfected muscle fibers after direct gene transfer with antigen-expressing plasmid DNA," <i>Gene Ther</i> . 4(3):181-188 (March 1997).							
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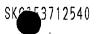
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25	Duzgunes, N., "Membrane fusion," in Subcellular Biochemistry, Roodyn, D.B., ed., Plenum Press, New York, Vol. 11, pp.195-286 (1985).									
25	AT	5 Etchart, N	Etchart, N., et al., "Class I-restricted CTL induction by mucosal immunization with maked DNA encoding measles virus haemagglutinin," J. Gen. Virol. 78 ( Pt 7):1577-1580 (July 1997).							
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725	AT	<u>6</u>	Felgner, P.L., "Nonviral Strategies for Gene Therapy," Sci. Am. 276:102-106 (June 1997).							
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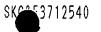
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45	AT	Z		regoriadis, G., et al., "Liposome-mediated DNA vaccination," FEBS Lett. 402(2-3):107-110 ebruary 1997).								
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4	AS	<u>8</u>	Heppel, J., et al., "Development of DNA vaccines for fish: vector design, intramuscular injection and antigen expression using viral haemorrhagic septicaemia virus genes as model," Fish and Shellfish Immunol. 8:271-286 (1998).							
24	AT	<u>a</u>		orn, et al., "Cancer Gene Therapy Using Plasmid DNA: Purification of DNA for Human Clinical rials," Human Gene Ther. 6:656-573 (1995).						
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25	AS	2	Kim, S., <i>et</i> (1983).	al., "Preparation	n of Multivesicular Li	iposomes," <i>Bioc</i>	chim. Bi	ophys. Acta 7	28:339-348
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25	AT	<u>10</u>	Lodmell, D.L Med. 4(8):949	mell, D.L., et al., "DNA immunization protects nonhuman primates against rabies virus," <i>Nature</i> 1. 4(8):949-952 (August 1998).								
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1	AS	<u>16</u>	Ulmer, J.B.,	et al., "DNA v	accines," Curr. Opin.	Immunol. 8(4):	:531-536	(August 1996)	).
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12	5	AB2	2,36	8,208	01/30/1945	Epstein et al.	-26	9 554	404.5 106	12/16/1940
	i	AC2	3,26	5,719	08/09/1966	Cowen et al.	1	0554	4 <del>04</del> il0	12/28/1959
		AD2	4,86	4,060	09/05/1989	Karalis et al.	56	4	292	08/31/1987
		AE2	5,04	9,386	09/17/1991	Epstein et al.	42	4	427	05/15/1990
		AF2	5,06	8,431	11/26/1991	Keralis et al.	56	4	301	05/15/1989
	J	AGZ	5,14	4,060	09/01/1992	Morita et al.	56	0	170	08/15/1990
L	7	AH2	5,27	9,833	01/18/1994	Rose	42	4	450	04/04/1990
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R	5	AS	<u>19</u>	Vaccination	," in <i>Developme</i>	e Cellular Basis of Imm nt and Clinical Progress 104:159-164 (2000).	wine Induction a of DNA Vaccine	at Mucos es. Dev.	al Surfaces Biol. Stand	by DNA ., Brown, F.,
R		AT A	19			hanced Gene Delivery an s," J. Biol. Chem. 269:			th, a Novel S	Series of
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AR	20	Menger, F.M J. Am. Chem.	, and Littau, ( Soc. 115:1003-	C.A., "Gemînî Surfacta 10090 (1993).	nts: A New Clas	s of Self	f-Assembling	Molecules,"			
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Page 3 of 4 ATTY. DOCKET NO. APPLICATION NO. 1530.0220001 09/580,463 FORM PTO-1449 APPLICANT Wheeler, Carl J. FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT FILING DATE GROUP May 26, 2000 U.S. PATENT DOCUMENTS EXAMINER DATE NAME INITIAL DOCUMENT NUMBER CLASS SUB-CLASS FILING DATE AA AB AC ΑĎ ΑE AF AG ΑH ΑI ΑJ AK FOREIGN PATENT DOCUMENTS **EXAMINER** DOCUMENT NUMBER COUNTRY CLASS INITIAL SUB-CLASS TRANSLATION Yes ΑI No Yes AM No Yes AN No Yes AO ΝO Yes AP OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Rosenthal, A.F., and Gayer, R.P., "A Synthetic Inhibitor of Venom Lecithinese A," J. Biol. Chem. AR <u>21</u> 235:2202-2206 (1960). Solodin, 1., and Heath, T.D., "Synthesis of Novel Cationic Lipids with a Guanidine Group. Cationic Lipids 3," SYNLETT (7):617-618 (1996). AS <u>21</u> Solodin, I., and Heath, T.D., "Synthesis of Amphiphilic Piperidinium Derivatives. Cationic Lipids 4" SYNLETT (7):619 (1996). AT 21 **EXAMINER** DATE CONSIDERED EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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AR   22   Solodin, I., and Heath, T.D., "Synthesis of Amphiphilic Derivatives of N-Methyldiathanolam Cationic Lipids 5," SYNLETT (7):620 (1996).	ine.
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